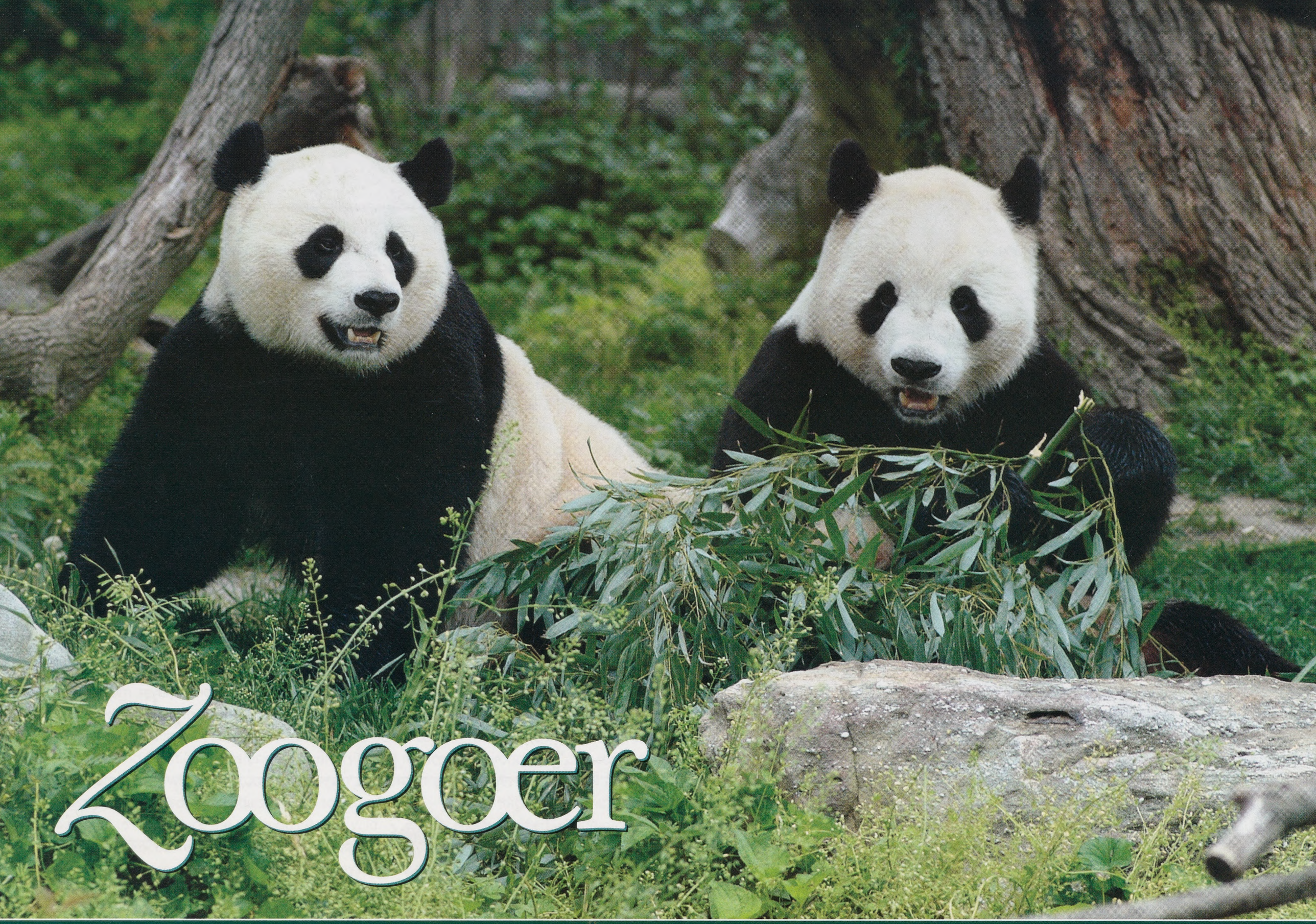


FONZ would like to thank the following sponsors of the 2005 *ZooGoer* calendar:
The Coca-Cola Company, Comcast Cable Communications, Fujifilm, and GEICO.

2005 **CALENDAR**

SEPTEMBER 2004

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6 ☽ Labor Day	7	8	9	10	11
12	13	14 ○	15 Rosh Hashanah begins at sundown	16 Rosh Hashanah	17 Rosh Hashanah	18
19 Fiesta Musical	20	21 ☾	22 Autumnal Equinox	23	24 Yom Kippur begins at sundown	25 Yom Kippur
26	27	28 ●	29	30		

OCTOBER 2004

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6 ☽	7	8	9
10	11 Columbus Day (observed)	12 Diwali	13	14 ○ FONZ Annual Meeting	15 Ramadan begins	16
17	18	19	20	21 ☾	22 Boo at the Zoo	23 Boo at the Zoo
24 Boo at the Zoo	25	26	27	28 ●	29	30
31 Halloween Daylight Savings Time ends						

NOVEMBER 2004

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2 Election Day	3	4	5 ☽	6
7	8	9	10	11 Veterans Day	12 ○	13
14 Ramadan ends	15	16	17	18	19 ☾	20
21	22	23	24	25 Thanksgiving	26 ●	27
28	29	30				

DECEMBER 2004

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5 ☽	6	7 Chanukkah begins at sundown	8	9	10	11 FONZ Children's Holiday Celebration
12 ○	13	14	15	16	17	18 ☾
19	20	21 Winter Solstice	22	23	24	25 Christmas
26 ● Kwanzaa begins	27	28	29	30	31 New Year's Eve	

☽ LAST QUARTER ○ NEW MOON ☾ FIRST QUARTER ● FULL MOON

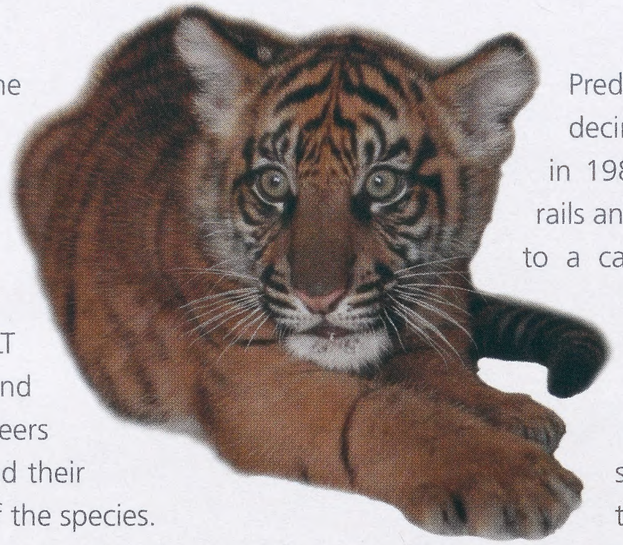
Science at the **National Zoo**

It's no wonder that the Smithsonian's National Zoo was one of the first zoos to establish a scientific program; after all, science is one of its founding principles. When the Zoo was established in 1889, Congress set its mission as "the advancement of science and the instruction and recreation of the people."

National Zoo science began with a fledgling program in 1965 headed by one resident scientist and, since then, blossomed to include a staff of more than 100 who study animals in the Zoo, and wildlife and habitats worldwide.

The National Zoo is an international leader in science and conservation, in large measure because of its holistic approach. Zoo scientists from different disciplines work together to assemble comprehensive conservation strategies that consider species' reproductive biology, nutrition, ecology, behavior, genetics, and health.

One of the National Zoo's most successful endeavors, the Golden Lion Tamarin Program, is a model of this multidisciplinary approach. Since 1974, the Zoo has collaborated with conservation organizations to boost declining golden lion tamarin (GLT) populations and preserve the monkeys' fragmented habitat in Brazil. Zoo scientists tackled GLT conservation from several angles. They studied GLT behavior and improved nutrition to create a viable captive breeding environment. They diligently kept the studbook for all GLTs in zoos and breeding facilities, to foster genetic diversity and reduce inbreeding. And when the Zoo's GLTs began to reproduce, scientists conducted field studies in Brazil to learn the best way to reintroduce the offspring into the wild. Yet, one question remained: Would the Brazilian people help conserve the disappearing monkeys? If not, the program could falter. Zoo scientists encouraged Brazilians to participate by training local scientists and raising public awareness. The program triumphed, and to date there are about 1,200 GLTs living in the wild. But Zoo scientists are not resting on their laurels. They continue to improve GLT population management and study GLT genetics, reproductive biology, and nutrition. Every day, FONZ volunteers closely observe GLTs at the Zoo, and their data enhance our understanding of the species.



Tiger Jessie Cohen/NZP

National Zoo science transcends political and geographic boundaries. To cite a few examples, Zoo scientists are reintroducing black-footed ferrets to the western Great Plains of the United States, conserving tigers in the forests of Asia, and studying wild dogs in Africa.

Feathered fauna also draw National Zoo scientists to diverse locales. In Latin America and the Caribbean, scientists from the Zoo's Migratory Bird Center (MBC) conduct field studies to understand how human land use, such as agricultural practice and livestock grazing, affects Neotropical migratory birds. Their research shows that traditional shade-grown coffee plantations provide far more habitat for birds and wildlife than full-sun coffee plantations. To promote bird habitat, the MBC informs Latin American policy makers of the environmental and socioeconomic benefits of shade-grown coffee, and in 1999 launched a "Bird-Friendly Coffee" certification program to give consumers the choice of certified, shade-grown organic coffee. Halfway around the world on Guam, Zoo scientists work with other zoos, universities, conservation organizations, and government agencies to return Guam rails and Micronesian kingfishers to their native habitat. Predation from invasive brown tree snakes decimated these birds' populations, and in 1984, some of the few remaining Guam rails and Micronesian kingfishers were brought to a captive breeding program at the Zoo's Conservation and Research Center (CRC) in Virginia. Zoo-bred rails now nest on Guam and nearby Rota Island, and kingfishers hatched at CRC were sent to Guam for eventual reintroduction. The National Zoo also screens zoo-bred rails for diseases and other health problems before they are relocated to Guam.

The scale and diversity of Zoo research are astounding. Zoo science may encompass an immense ecosystem, as is the case with the Monitoring and Assessment of Biodiversity Program underway in Gabon. Or it may focus very narrowly on microscopic subjects such as sperm and eggs, as it does in reproductive biology. But even the most focused of Zoo studies inform a broader perspective on conservation—in vitro fertilization, for example, could bring new hope for fishing cats and clouded leopards.

The Zoo takes to heart its responsibility to instruct. All of the Zoo's science and conservation programs train graduate and post-doctoral students, many of whom go on to become leaders in their fields. And we hope that *ZooGoer* brings a glimpse of Zoo science to your doorstep.

The 2005 *ZooGoer* calendar highlights National Zoo science and its role in the Zoo's mission to "celebrate, study, and protect animals and their habitats."

To learn more about the National Zoo's science programs, visit ***www.fonz.org/zooscience.htm.***

National Zoo scientists produced the first surviving litter of cheetah cubs (*Acinonyx jubatus*) ever born via artificial insemination, and are improving assisted reproduction techniques for a variety of species. On the African savanna, Zoo scientists study reproductive biology in wildebeest (*Connochaetes taurinus*) and monitor threats to African wild dogs (*Lycaon pictus*).

Cheetahs Jessie Cohen/NZP

Coca-Cola Real

The Coca-Cola Company is proud to support the Smithsonian's National Zoo.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 New Year's Day
2	☽ 3	4	5	6	7	8
9	○ 10	11	12	13	14	15
16	☾ 17 Martin Luther King, Jr. Day (observed)	18	19	20 Eid al-Adha begins at sundown	21 Eid al-Adha	22
23	24	● 25	26	27	28	29
30	31					

DECEMBER 2004

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FEBRUARY 2005

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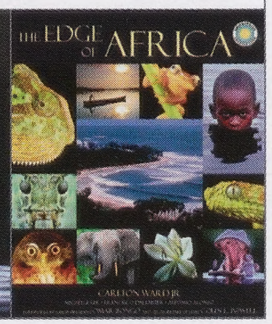
27	28					

JANUARY 2005

Visit our website at www.fonz.org.

An African forest buffalo (*Syncerus caffer nanus*) roams the shores of Gabon in West Africa, a landscape rich in wildlife that includes chameleons, hippos, and many bird species. The Zoo's Monitoring and Assessment of Biodiversity Program works with industries, local communities, and government and nonprofit agencies to conserve Gabon's wilderness.

All photos © Carlton Ward, Jr./www.carltonward.com

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 Black History Month begins	☽ 2 Groundhog Day	3	4	5
6	7	○ 8 Nirvana Day Mardi Gras	9 Ash Wednesday Muharram begins at sundown Chinese New Year	10 Muharram	11	12 Lincoln's Birthday
13	14 Valentine's Day	15	☾ 16	17	18	19
20	21 Presidents' Day	22 Washington's Birthday	23	● 24	25	26
27	28					

JANUARY 2005

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MARCH 2005

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FEBRUARY 2005

Visit our website at **www.fonz.org.**

Long-term commitment is a hallmark of National Zoo science, and its marine mammal research is no exception. Zoo scientists pioneered studies on population biology in California sea otters (*Enhydra lutris*) and behavioral ecology in gray seals (*Halichoerus grypus*) in the 1980s, and continue to study both species today.

Top otter © Jan A. Allinder/Lucid Images Wildlife Photography/www.wildlifephoto.net, seals Jessie Cohen/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 Women's History Month begins	2 National Zoological Park established, 1889	☽ 3 Maha Shivaratri	4	5
6	7	8	9	○ 10	11	12
13	14	15	16	☾ 17 St. Patrick's Day	18	19 North American Wildlife Celebration
20 North American Wildlife Celebration Palm Sunday Vernal Equinox	21	22	23	24 Purim begins at sundown	● 25 Good Friday Purim Holi	26
27 Easter	28 African American Family Celebration	29	30	31		

FEBRUARY 2005

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APRIL 2005

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MARCH 2005

Visit our website at **www.fonz.org.**

Studying pandas is a labor of love for Zoo scientists. They scrutinize Tian Tian and Mei Xiang's playful tussles and monitor their hormone levels to better understand giant panda (*Ailuropoda melanoleuca*) reproduction. And they are experts in red panda (*Ailurus fulgens*) reproduction—more than 150 have been born in Zoo facilities.

All photos Jessie Cohen/NZP

FUJIFILM

Fujifilm and FONZ — Partners in Conservation Education
Fujifilm and FONZ are working together to help save the giant panda through research and education, while recording their activities on Fujifilm products.

www.fujifilm.com Get the Picture

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 Panda Month begins April Fool's Day	☽ 2
3 Daylight Savings Time begins at 2 a.m., set clocks ahead	4	5	6	7	○ 8 Buddha Day	9
10	11	12	13	14	15 Income tax returns due	☾ 16 FONZ founded, 1958
17 National Wildlife Week begins	18	19	20	21	22 Earth Day	23 Passover begins at sundown
● 24	25	26	27 Administrative Professionals Day	28	29 Arbor Day	30 Migratory Bird Day Festival

MARCH 2005

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MAY 2005

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29	30	31				

APRIL 2005

Visit our website at **www.fonz.org.**

The Zoo's Migratory Bird Center celebrates birds at its Migratory Bird Day Festival, studies their behavior and ecology, and protects their habitat by promoting shade-grown coffee and other sustainable practices. Pictured, clockwise from top: Black-throated blue warbler (*Dendroica caerulescens*), Cape May warbler (*D. tigrina*), and swamp sparrow (*Melospiza georgiana*).

Black-throated blue warbler © Robert Royse, Cape May warbler J & K Hollingsworth/USFWS, swamp sparrow © Ralph Wright

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
☽ 1 Migratory Bird Day Festival Passover ends	2	3	4	5 Cinco de Mayo	6	7
○ 8 Mother's Day	9	10	11	12	13 Guppy Gala	14
15	☾ 16	17	18	19 National ZooFari	20	21 Armed Forces Day
22	● 23	24	25	26	27	28
29	☽ 30 Memorial Day	31				

APRIL 2005

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JUNE 2005

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MAY 2005

Visit our website at **www.fonz.org.**

In the 1970s, a National Zoo scientist was among the first to study sloth bears (*Melursus ursinus*) in the wild, in the forests of Nepal. Today, FONZ supports sloth bear research in India, where Zoo scientists are assessing sloth bear habitat and recommending conservation strategies for this threatened species.

Top and left photos Jessie Cohen/NZP, right photo J'nie Woosley/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5 World Environment Day	○ 6	7	8	9	10 ZooNight	11
12 Shavuot begins at sundown	13 Shavuot	14 Flag Day Shavuot	☾ 15	16	17	18
19 Father's Day	20 FONZ Summer Safari Day Camp begins	21 Summer Solstice	● 22	23	24	25
26	27	☽ 28	29	30 Sunset Serenades	Comcast With Comcast's On Demand and DVR digital cable services, TV is now on your terms...1-888-COMCAST.	

MAY 2005

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JULY 2005

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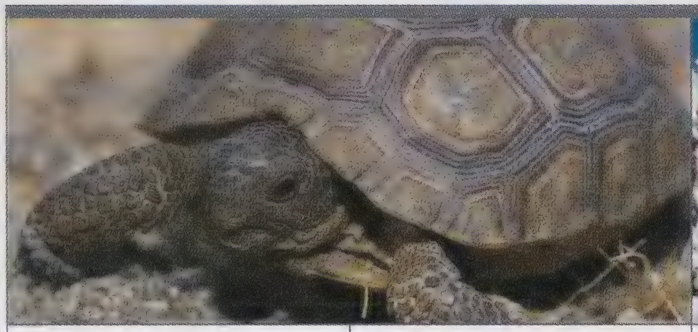
31						

JUNE 2005

Visit our website at www.fonz.org.

National Zoo scientists are conserving marine turtles in oceans around the world, and desert tortoises in their arid homes in the southwestern U.S. Pictured, clockwise from top: Hawaiian hawksbill (*Eretmochelys imbricata*), Hawaiian green sea turtles (*Chelonia mydas*), and desert tortoise (*Gopherus agassizii*).

Sea turtles © U. Keuper-Bennett/P. Bennett, www.turtles.org, desert tortoise © Gerald & Buff Corsi/California Academy of Sciences



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4 Independence Day	5	○ 6	7 Sunset Serenades	8	9
10 FONZ Nature Camp begins	11	12	13	☾ 14 Sunset Serenades	15	16
17	18	19	20	● 21 Sunset Serenades	22 Mei Xiang's Birthday	23
24	25	26	27	☽ 28 Sunset Serenades	29	30
31						

JUNE 2005

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AUGUST 2005

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28	29	30	31			

JULY 2005

Visit our website at **www.fonz.org.**

To track maned wolves (*Chrysocyon brachyurus*) on their home turf, Zoo scientists travel to South America, but also observe the fox-like carnivores at the Conservation and Research Center in Virginia. Their data on the wolves' nutrition, behavior, and reproduction will help them conserve other endangered canids.

All photos Jessie Cohen/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4 Sunset Serenades	○ 5	6
7	8	9	10	11	12	☾ 13
14	15	16	17	18	● 19 Raksha Bandhan	20
21	22	23	24	25	☽ 26	27 Tian Tian's Birthday
28	29	30	31			

JULY 2005

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SEPTEMBER 2005

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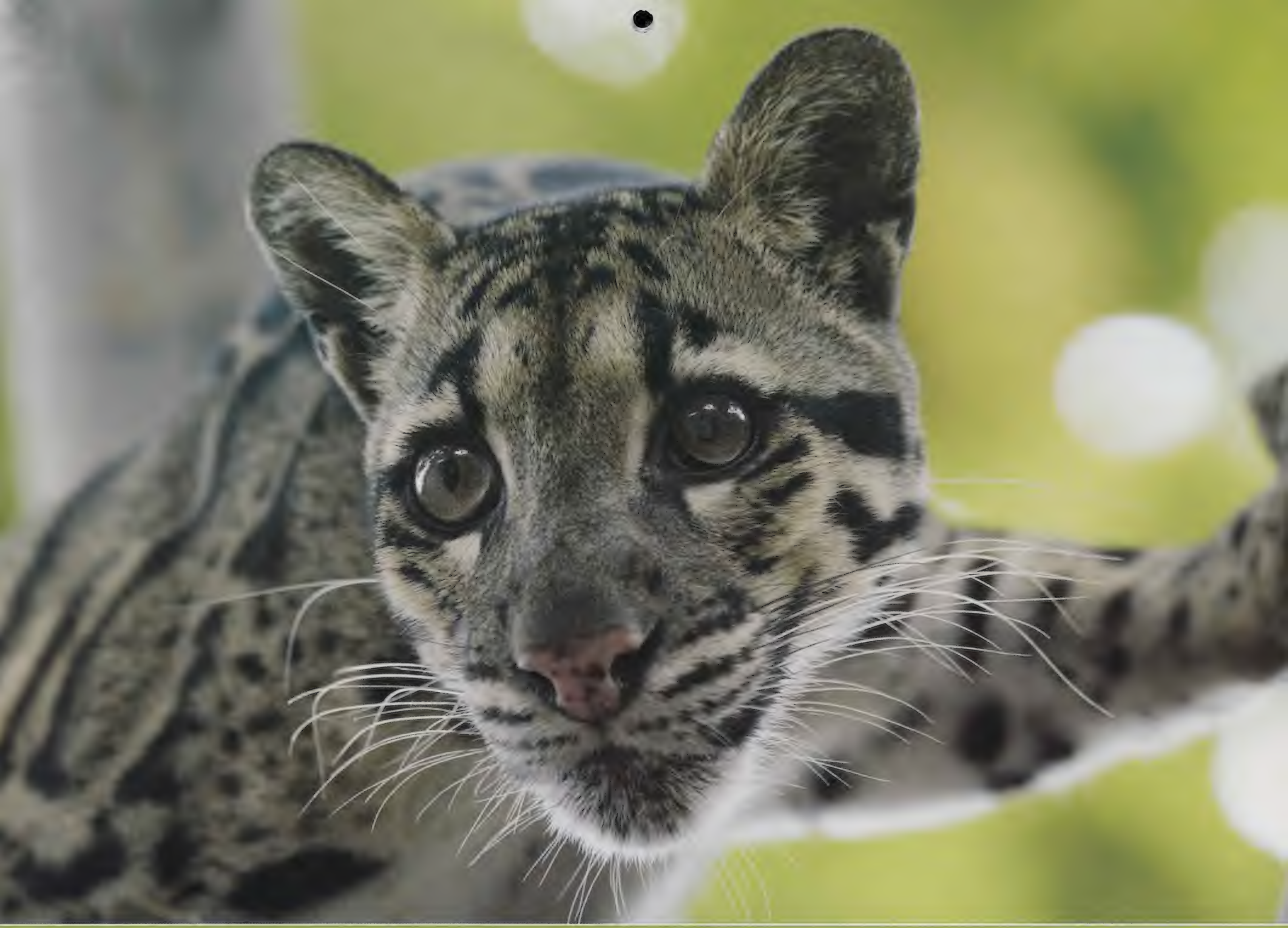
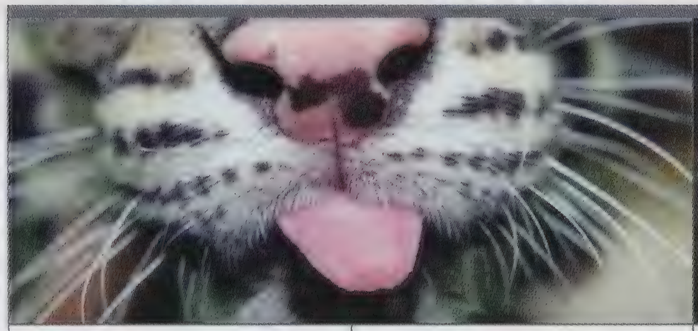
AUGUST 2005

Visit our website at **www.fonz.org.**



Shy and elusive, clouded leopards (*Neofelis nebulosa*, above and left) and fishing cats (*Prionailurus viverrinus*) are suffering population declines. The National Zoo conserves them on three fronts: in Thailand and Virginia, Zoo scientists lead long-term breeding programs, and in Sri Lanka, they study how fishing cats and people can co-exist.

Top clouded leopard and all fishing cats: Jessie Cohen/NZP, clouded leopard tongue Lisa Ware/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	○ 3
4	5 Labor Day	6	7	8	9	10
☾ 11 Grandparents' Day	12	13	14	15 Hispanic Heritage Month	16	17
● 18 Fiesta Musical	19	20	21	22 Autumnal Equinox	23 Native American Day	24
☽ 25	26	27	28	29	30	

AUGUST 2005

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OCTOBER 2005

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SEPTEMBER 2005

Visit our website at **www.fonz.org.**

The National Zoo is a world leader in small mammal conservation, and its captive breeding and reintroduction programs are returning endangered species to their native habitats. Pictured, clockwise from top: golden-headed lion tamarins (*Leontopithecus chrysomelas*), black-footed ferret (*Mustela nigripes*), and golden lion tamarin (*L. rosalia*).

All photos Jessie Cohen/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	○ 3 Rosh Hashanah begins at sundown	4 Rosh Hashanah Ramadan begins at sundown Navaratri begins	5	6	7	8
9	☾ 10 Columbus Day (observed)	11	12 Yom Kippur begins at sundown	13 Yom Kippur	14 FONZ Annual Meeting	15 Sweetest Day
16 National Rainforest Week	● 17 Sukkot begins at sundown	18	19	20	21	22 Make a Difference Day
23	24 United Nations Day	☽ 25	26	27	28 Boo at the Zoo	29 Boo at the Zoo
30 Boo at the Zoo Daylight Savings Time ends 2 a.m., set clocks back	31 Halloween					

SEPTEMBER 2005

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NOVEMBER 2005

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OCTOBER 2005

Visit our website at www.fonz.org.

The November 2001 birth of Kandula, an Asian elephant (*Elephas maximus*), was a landmark for National Zoo science. He is the first elephant conceived at the National Zoo through artificial insemination, and only the fifth in the whole world. Zoo scientists also work to conserve elephant habitat in Southeast Asia.

All photos Jessie Cohen/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 American Indian Heritage Month begins Diwali	○ 2	3	4 Ramadan ends	5
6	7	8 Election Day	☾ 9	10	11 Veterans' Day	12
13	14	15	● 16	17	18	19
20	21	22	☽ 23	24 Thanksgiving	25 Kandula's Birthday	26
27	28	29	30			

OCTOBER 2005

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DECEMBER 2005

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NOVEMBER 2005

Visit our website at **www.fonz.org.**

With the birth of three Sumatran tiger (*Panthera tigris*) cubs in 2004, the National Zoo celebrates four decades of tiger conservation. The Zoo employs and trains some of the world's preeminent tiger experts. They develop captive breeding programs at the Zoo and are working to sustain wild tiger populations in Asia.

All photos Jessie Cohen/NZP

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			GEICO You too could save 15% or more on car insurance. CALL GEICO AT 1.800.947.AUTO.	○ 1	2	3
4	5	6	7 Pearl Harbor Remembrance Day	☾ 8 Bodhi Day	9	10 Human Rights Day
11	12	13	14	● 15	16	17
18	19	20	21 Winter Solstice	22	☽ 23	24
25 Christmas Day Chanukkah begins at sundown	26 Kwanzaa begins	27	28 Congress enacted Endangered Species Act, 1973	29	30	○ 31 New Year's Eve

NOVEMBER 2005

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JANUARY 2006

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DECEMBER 2005

Visit our website at **www.fonz.org.**

2005 AT A GLANCE

JANUARY 2005

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FEBRUARY 2005

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MAY 2005

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AUGUST 2005

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SEPTEMBER 2005

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OCTOBER 2005

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NOVEMBER 2005

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DECEMBER 2005

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2006 AT A GLANCE

JANUARY 2006

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JULY 2006

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AUGUST 2006

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SEPTEMBER 2006

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OCTOBER 2006

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NOVEMBER 2006

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DECEMBER 2006

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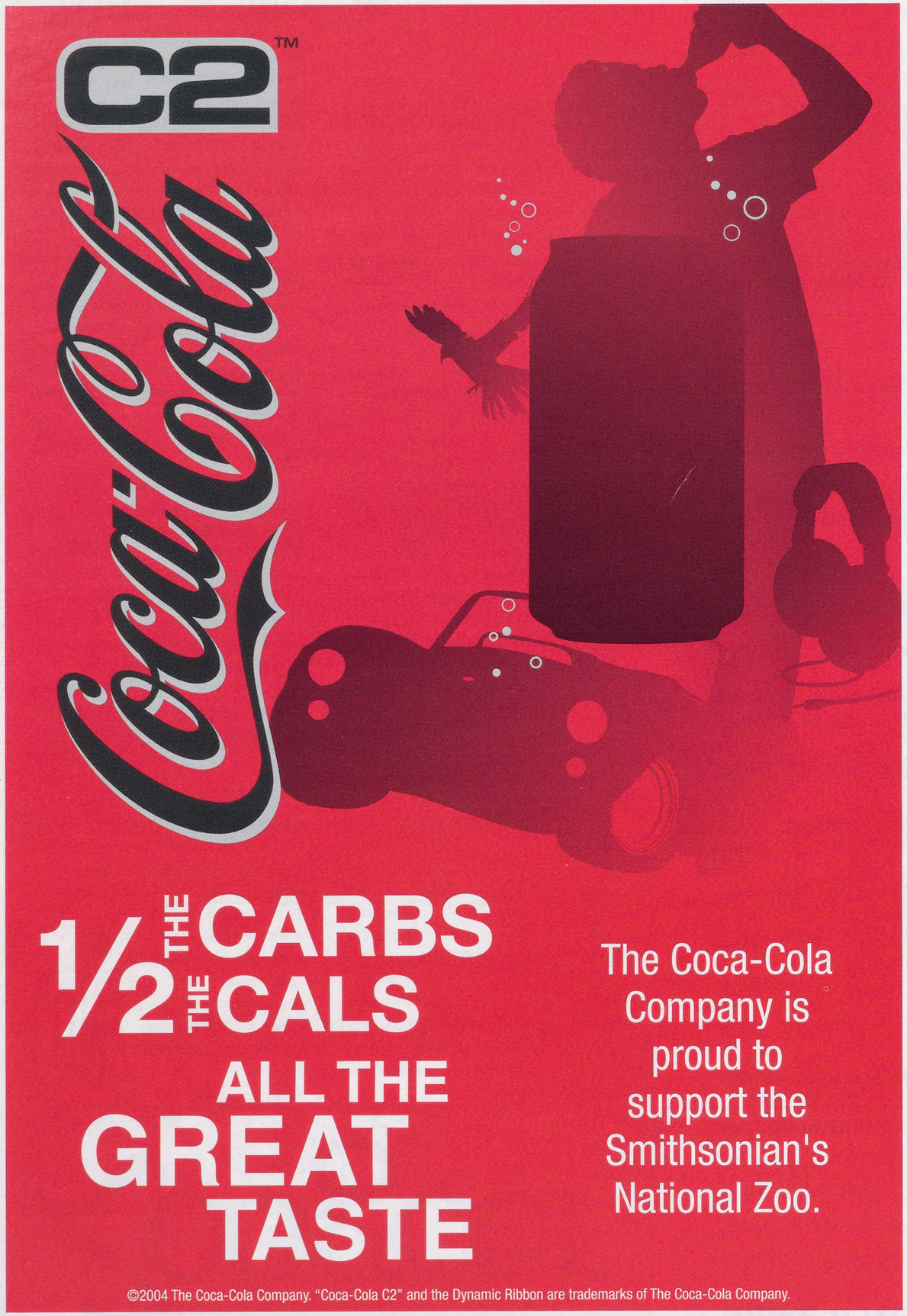

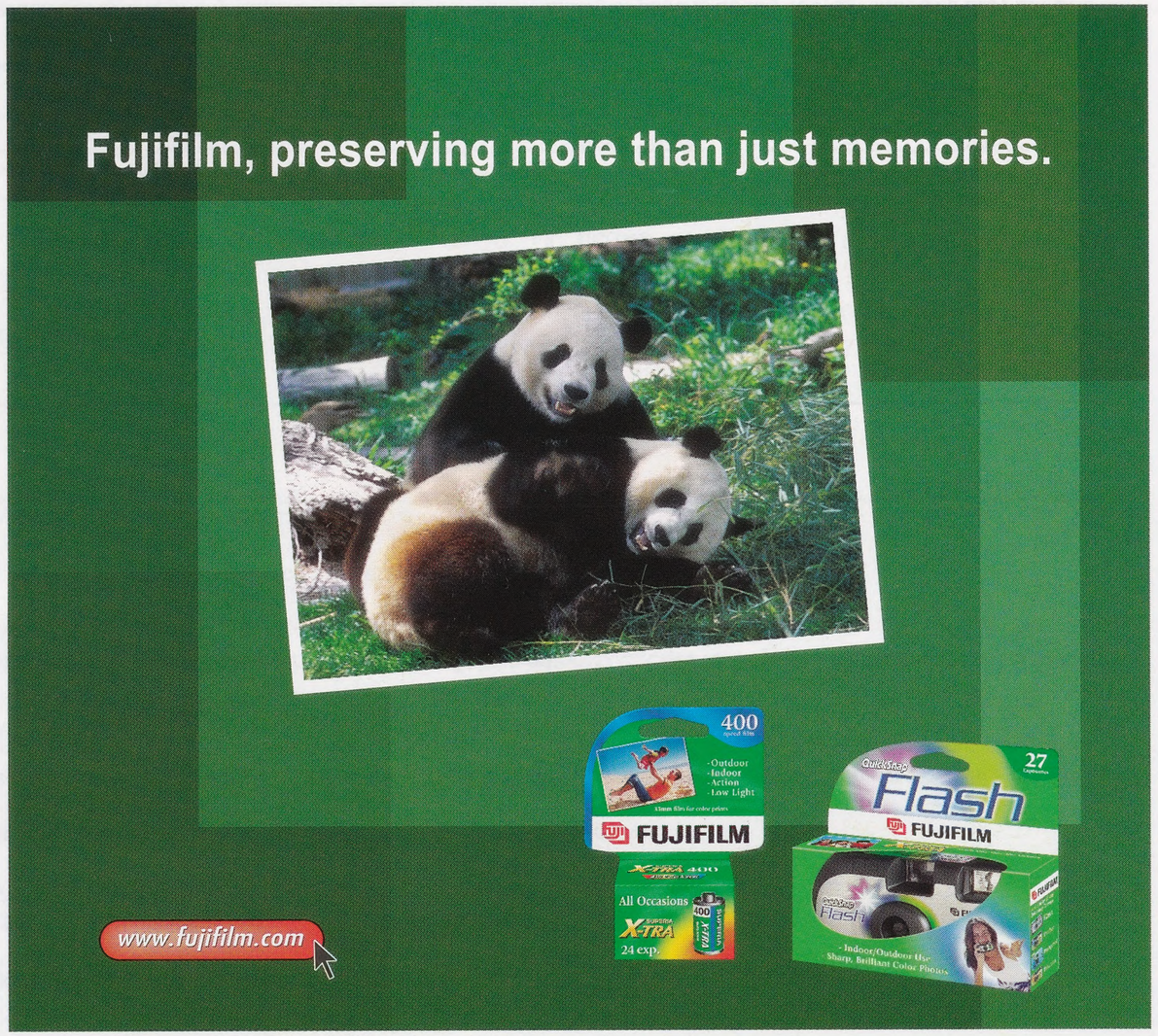

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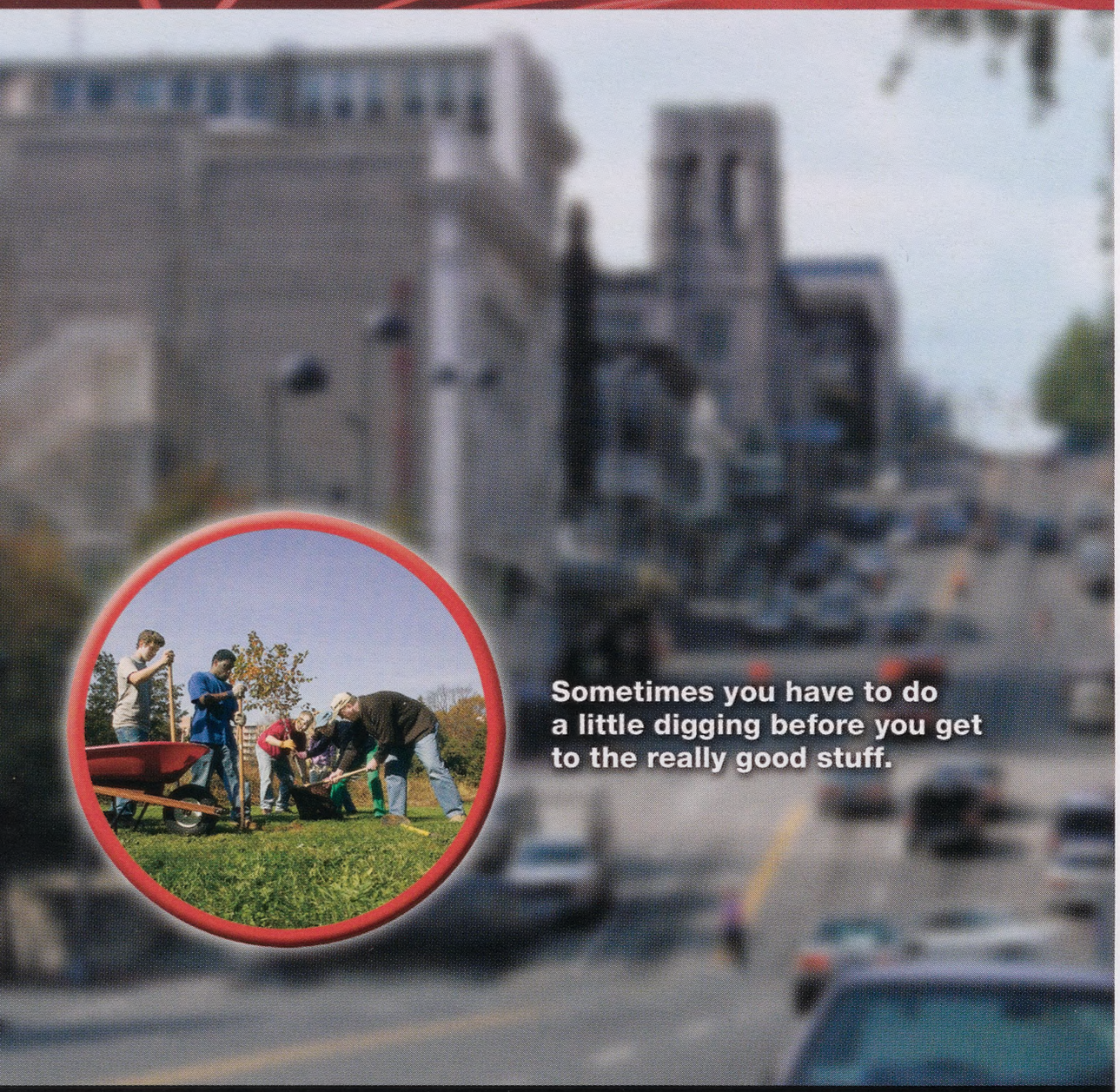

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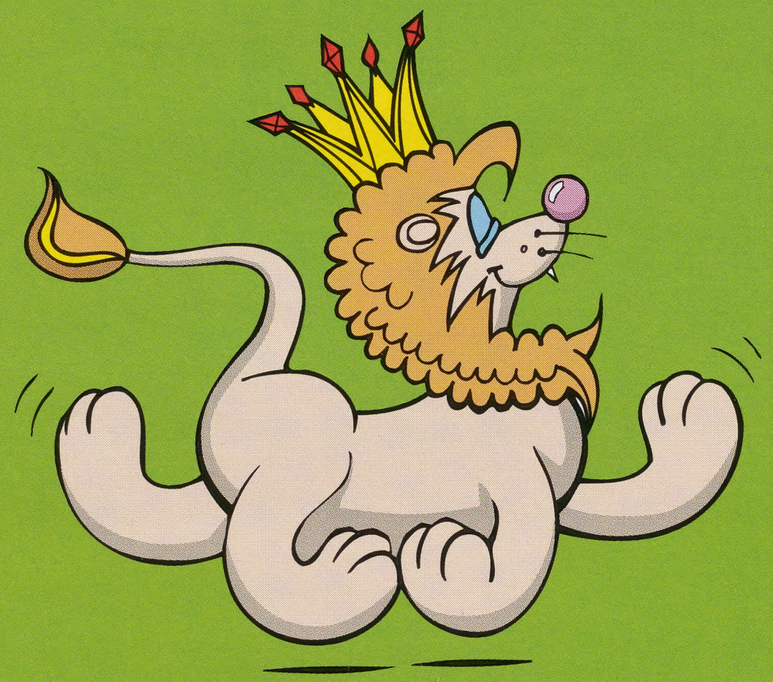

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